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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/573,751	03/29/2006	Ralf Krannich	1454.1701	3824
21171 STAAS & HAI	7590 01/13/201 SEY LLP	EXAMINER		
SUITE 700			LEBASSI, AMANUEL	
1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			01/13/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Occurrence	10/573,751	KRANNICH ET AL.					
Office Action Summary	Examiner	Art Unit					
	AMANUEL LEBASSI	2617					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)☑ Responsive to communication(s) filed on 06/16	5/2010						
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<i>i</i>	·—						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 11 and 13-28 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
	6) Claim(s) 11 and 13-28 is/are rejected.						
	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner	.						
10)⊠ The drawing(s) filed on <u>29 March 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Example 11.	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119(a)	-(d) or (f)					
a) All b) Some * c) None of:							
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents		on No.					
3. Copies of the certified copies of the prior	· ·						
application from the International Bureau	•	3					
* See the attached detailed Office action for a list of	, ,,	d.					
Attachment/c)							
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Drafts, erson's Patent Drawin; Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO/SB/08)	5)	atent Application					
Paper No(s)/Mail Date	5) [

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 11, 13-28 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 11, 13-28 are rejected under 35 U.S.C. 103(a) as being unpatentable by Kennedy US 20030069024 in view of MacDonald et al. US 20040152471.

Regarding claim 11, Kennedy discloses a method for estimating the position of a subscriber station in a radio communication system (abstract-geolocating a wireless mobile unit). Kennedy discloses receiving reports from the subscriber station at a receive station providing coverage for a radio cell in which the subscriber station is located, each report containing information relating to a signal strength at a location of the subscriber station of at least one receive signal received by the subscriber station and sent by a transmitting station (abstract- communication signals and pilot signal information from a

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mobile unit are received at a base station). Kennedy discloses storing the reports in a memory of the receive station of the radio communication system providing coverage for a radio cell in which the subscriber station is located (paragraph [0023] where position estimation are stored in database). Kennedy discloses receiving a request for position estimation at the receive station of the radio communication system (paragraph [0020] geolocating a mobile unit with an infrastructure-based location system at a base station therefore receiving a request for position estimation at the receiving base station). Kennedy discloses estimating the position at a position determining unit but is silent on taking into account at least two signal reports stored prior to the request for position estimation.

However MacDonald discloses taking into account at least two reports (paragraph [0014] and [0091] where comparison is made with at least two reported received signal strength values with at least two predetermined received strength values).

At the time of invention, it would have been obvious to one of ordinary skill in the art at the time of invention to modify the inventions of Kennedy, and have it include taking into account at least two reports as disclosed by MacDonald. The motivation would have been in order to make more accurate position determinations as discusses by MacDonald (paragraph [0011]).

Regarding claim 13, Kennedy teaches wherein the reports are received and/or stored regularly at specific time intervals (paragraph [0013]).

Regarding claim 14, MacDonald discloses wherein the reports are received and stored regularly at specific time intervals, and the reports are received and stored during both an active connection and in an idle mode (paragraph [0012]).

Regarding claim 15, MacDonald discloses wherein the memory stores a first number of reports as a maximum (paragraph [0046]).

Regarding claim 16, MacDonald discloses wherein the position determining unit requests a second number of reports from the network device (paragraph [0014].

Regarding claim 17, MacDonald discloses wherein if the number of reports stored is fewer than the second number when the request for position estimation is received, then the <u>receive station</u> stores additional reports until the second number of reports has been stored or until a maximum period of time has expired (paragraph [0014]), if the second number of reports is stored before expiration of the maximum period of time, then the <u>receive station</u> sends the second number of reports prior to the expiry of the maximum period of time

(paragraph [0091]), and if the second number of reports cannot be stored before expiration of the maximum period of time, then the base station sends all stored reports after the expiry of the maximum period of time, even if the number of stored reports remains smaller than the second number of reports (paragraph [0091]).

Regarding claim 18, MacDonald discloses wherein the position determining unit estimates position by comparing signal strengths obtained from the reports with signal strengths stored in a signal strength database (paragraph [0012]).

Regarding claim 19, MacDonald discloses wherein each report also contains information relating to a transmitting power used to transmit the at least one receive signal (paragraph [0091]).

Regarding claim 20, MacDonald discloses wherein the reports also contain: a transmitting power used by the subscriber station to transmit the report to the receive station (paragraph [0091]), and a receive power at which each report was received by the receive station in each case (paragraph [0112]).

Regarding claim 21, MacDonald discloses wherein the reports are received and stored regularly at specific time intervals, and the reports are

received and stored during both an active connection and in an idle mode (paragraph [00120 and [0112]).

Regarding claim 22, MacDonald discloses wherein the memory stores a first number of reports as a maximum (paragraph [0046]).

Regarding claim 23, MacDonald discloses wherein the position determining unit requests a second number of reports from the network device (paragraph [0014].

Regarding claim 24, MacDonald discloses wherein if the number of reports stored is fewer than the second number when the request for position estimation is received, then the receive station stores additional reports until the second number of reports has been stored or until a maximum period of time has expired (paragraph [0014]), if the second number of reports is stored before expiration of the maximum period of time, then the receive station sends the second number of reports prior to the expiry of the maximum period of time, and if the second number of reports cannot be stored before expiration of the maximum period of time (paragraph [0091]), then the base station sends all stored reports after the expiry of the maximum period of time, even if the number of stored reports remains smaller than the second number of reports (paragraph [0091]).

Regarding claim 25, MacDonald discloses wherein the position determining unit estimates position by comparing signal strengths obtained from the reports with signal strengths stored in a signal strength database (paragraph [0012]).

Regarding claim 26, MacDonald discloses wherein each report also contains information relating to a transmitting power used to transmit the at least one receive signal (paragraph [0091]).

Regarding claim 27, MacDonald discloses wherein the reports also contain: a transmitting power used by the subscriber station to transmit the report to the receive station (paragraph [0091]), and a receive power at which each report was received by the receive station in each case (paragraph [0112]).

Regarding claim 28, Kennedy discloses a receive station for a radio communication system ((abstract- communication signals and pilot signal information from a mobile unit are received at a base station). Kennedy discloses a memory, for storing the reports, which the receive station providing coverage for a radio cell in which the subscriber station is located has received from the subscriber station, in which the reports in each case contain information relating to a signal strength at a location of the subscriber station of at least one

receive signal received by the subscriber station and sent by a transmitting station (paragraph [0023] where position estimation are stored in database). Kennedy discloses a transmitter to transmit, after a request for position estimation has been received at the receive station of the radio communication system but is silent at least two signal reports stored prior to receiving the request for position estimation, the reports being transmitted to a position determining unit, in which the position is estimated taking into account the at least two sequences and a controller to control the receive station so that at least two signal sequences are stored prior to the request for position estimation.

However MacDonald discloses at least two signal reports stored prior to receiving the request for position estimation, the reports being transmitted to a position determining unit, in which the position is estimated taking into account the at least two sequences and a controller to control the receive station so that at least two signal sequences are stored prior to the request for position estimation (paragraph [0014] and [0091] where reports being transmitted to a position determining unit and where comparison is made with at least two reported received signal strength values with at least two predetermined received strength values).

At the time of invention, it would have been obvious to one of ordinary skill in the art at the time of invention to modify the inventions of Kennedy, and have it include taking into account at least two reports as disclosed by

MacDonald. The motivation would have been in order to make more accurate position determinations as discusses by MacDonald (paragraph [0011]).

Conclusion

1. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Amanuel Lebassi, whose telephone number is (571) 270-5303. The Examiner can normally be reached on Monday-Thursday from 8:00am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Nick Corsaro can be reached at (571) 272-7876. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

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Amanuel Lebassi /A. L./ 1/11/2011

/NICK CORSARO/ Supervisory Patent Examiner, Art Unit 2617